



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
02.09.1998 Bulletin 1998/36

(51) Int. Cl.⁶: **C08F 10/00**, **C08F 4/622**,
C08F 4/54

(43) Date of publication A2:
05.08.1998 Bulletin 1998/32

(21) Application number: **98105784.7**

(22) Date of filing: **02.08.1995**

(84) Designated Contracting States:
AT BE DE ES FR GB GR IT NL PT SE

(30) Priority: **02.08.1994 US 284797**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
95928725.1 / 0 773 965

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(54) **Polymerisation catalyst**

(57) A polymerisation catalyst comprising:

(A) rare earth metal component selected from the group consisting of (1) a reaction mixture obtainable by treating a silica support, a carbon black support or a mixed support thereof with a mono- or di-ethyl aluminium chloride, adding a neodymium carboxylate in the presence of a solvent to form a slurry, and removing the solvent or (2) a reaction mixture obtainable by dissolving a neodymium carboxylate in a first solvent, adding silica or carbon black, and removing the solvent to obtain a dry solid, contacting the dry solid with a solution containing a mono- or di-ethyl aluminium chloride in a second solvent, and removing the second solvent; and

(B) a co-catalyst selected from the group consisting of a diisobutyl aluminium hydride, triisobutyl aluminium, and a mixture thereof.

EP 0 856 530 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 10 5784

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.8)
P, X, D	EP 0 647 657 A (BAYER AG) 12 April 1995 * the whole document *	1	C08F10/00 C08F4/622 C08F4/54
Y	EP 0 599 096 A (MICHELIN & CIE ; ATOCHEM ELF SA (FR)) 1 June 1994 * claims; examples *	1-7	
Y	WO 92 17510 A (ICI PLC) 15 October 1992 * claims *	1-7	
X	PATENT ABSTRACTS OF JAPAN vol. 007, no. 147 (C-173), 28 June 1983 & JP 58 061107 A (NIPPON GOSEI GOMU KK), 12 April 1983, * abstract *	1	
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A	IWAKAZU HATTORI ET AL: "CHEMICAL MODIFICATION OF NEODYMIUM HIGH CIS-1,4 POLYBUTADIENE WITH STYRENEOXIDE" POLYMERS FOR ADVANCED TECHNOLOGIES, vol. 4, no. 7, 1 August 1993, pages 450-456, XP000396650 * page 450 - page 456 *	1-7	TECHNICAL FIELDS SEARCHED (Int.Cl.8) C08F
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A	EP 0 011 184 A (BAYER AG) 28 May 1980 * claims *	1-7	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 8 July 1998	Examiner Kaumann, E
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 03/82 (P04C01)